(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 10 February 2005 (10.02.2005)

PCT

(10) International Publication Number WO 2005/012357 A1

- (51) International Patent Classification⁷: C07K 14/82, C12N 15/11, 15/12, C07K 16/32, A61P 35/00
- (21) International Application Number:

PCT/GB2004/003326

(22) International Filing Date:

30 July 2004 (30.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0317988.4

31 July 2003 (31.07.2003) GB

- (71) Applicant and
- (72) Inventor: MILMER, Jo [GB/GB]; Department of Biology, University of York, York, YO1 5DD (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): JIANG, Ming [CN/GB]; Department of Biology, University of York, York, YO1 5DD (GB).
- (74) Agent: HARRISON, Goddard, Foote; 40-43 Chancery Lane, London WC2A 1JA (GB).

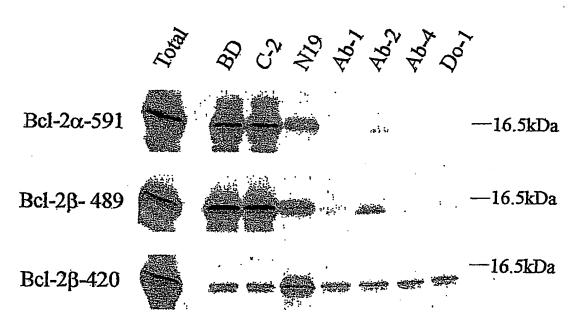
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BCL-2 SPLICING VARIANTS



(57) Abstract: The present invention provides a method of regulating apoptosis in a cell and comprises targeting an abnormally or alternatively spliced mRNA, an abnormally or alternatively structured mRNA, or a product of either. The invention also provides a nucleotide construct with a nucleotide sequence that is homologous to mRNA transcribed from an abnormally spliced gene and a pharmaceutical composition comprising the nucleotide construct in association with a pharmaceutically acceptable carrier.